

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of:

Inventors : Fredric L. Abrams
 Robert F. Freund
 Serial No. : 10/661,178
 Filed : September 12, 2003
 Title : A PLASTICATOR SCREW
 Docket : MTY 065 P2 CI3

Assistant Commissioner for Patents
 Washington, D.C. 20231

Sir:

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INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. 1.97

Pursuant to the provisions of 37 CFR 1.97, Applicants wish to disclose the materials listed on the attached form PTO SB/08 and listed below which the Examiner may find relevant to the examination of the above-identified patent application.

This application is a continuation of U.S. Patent Application Serial No. 09/769,201 filed January 24, 2001, now U.S. Patent No. 6,620,353, which is a continuation of Serial No. 09/399,524, filed September 20, 1999, now issued as U.S. Patent No. 6,190,586, which is a continuation of Serial No. 09/139,923 filed August 26, 1998, now issued as U.S. Patent No. 5,954,601, which is a division of Serial No. 08/710,411 filed September 17, 1996, now issued as U.S. Patent No. 5,800,757, which is a continuation-in-part of Serial No. 08/220,906 filed March 31, 1994, now U.S. Patent No. 5,591,384.

In accordance with MPEP §2001.06(b) and (c), Applicants direct the Examiner's attention to the fact that U.S. Patent Nos. 5,591, 384 and 5,637,329 were the subject of litigation Civil Action No. C-99---204 in the United States District Court for the Southern District of Ohio, Western Division. The litigation was settled with both defendants, and information regarding the litigation may be found in the parent application. The Examiner is invited to contact the undersigned at the number listed below should the Examiner desire any further information regarding the license arrangement or the details of the settlement between the Plaintiff or any of the Defendants.

The Examiner may find the following references relevant and he is respectfully requested to carefully consider all cited art, which is being cited for completeness. Pursuant to the provisions of 37 C.F.R. §1.98(d) copies of these materials are not required as they have previously been submitted in the parent application.

U.S. Patent No. Des. 362,881, issued to Schickert et al., on October 3, 1995, for Basketball Backboard.

U.S. Patent No. 1,743,299, issued to Wiemer, on January 14, 1930, for Cutting Machine.

U.S. Patent No. 1,944,464, issued to Richardson, on January 23, 1934, for Art of Treating Plastic Molding Compositions Including a Fibrous Filler and Organic Binder.

U.S. Patent No. 2,386,966, issued to MacMillen, on October 16, 1945, for High Frequency Electrostatic Heating of Plastics.

U.S. Patent No. 2,683,895, issued to Scofield, on July 20, 1954, for Extruder.

U.S. Patent No. 2,799,047, issued to Widiger et al., on July 16, 1957, for Rotary Hopper for Extruders and the Like.

U.S. Patent No. 2,877,501, issued to Bradt, on March 17, 1959, for Glass-Reinforced Thermoplastic Injection Molding Compound and Injection-Molding Process Employing It.

U.S. Patent No. 3,042,570, issued to Bradt, on July 3, 1962, for Apparatus and Method for Producing Reinforced Molding Composition.

U.S. Patent No. 3,078,513, issued to Levison et al., on February 26, 1963, for Apparatus for Extruding Thermoplastic Material.

U.S. Patent No. 3,283,041, issued to Sommerfield, on November 1, 1966, for Apparatus and Method for Controlling Pressure in a Plastic Extruding Machine.

U.S. Patent No. 3,453,356, issued to Kent, Jr. et al., on July 1, 1969, for Mixing of Filamentary Reinforcing Material with Thermoplastic Resins.

U.S. Patent No. 3,499,186, issued to Sassa, on March 10, 1970, for Extruder for Producing Porous Shaped Resinous Articles.

U.S. Patent No. 3,574,890, issued to Gresch, on April 13, 1971, for Combined Heating and Mixing Apparatus.

U.S. Patent No. 3,583,679, issued to Godley et al., on June 8, 1971, for Screw Feeding Method and Apparatus.

U.S. Patent No. 3,632,254, issued to Woodham et al., on January 4, 1972, for Apparatus for Producing Fiber Reinforced Plastics.

U.S. Patent No. 3,632,256, issued to Kasting et al., on January 4, 1972, for Extrusion-Compounding Apparatus.

U.S. Patent No. 3,728,056, issued to Theysohn, on April 17, 1973, for Extruder Control System.

U.S. Patent No. 3,728,986, issued to Brovoll, on April 24, 1973, for Machine for the Application of Glue to a Running Band and the Cutting of the Band at the Place of the Glue Application.

U.S. Patent No. 3,767,754, issued to Manning et al., on October 23, 1973, for Method for Melting and Dispersion of Thermoplastic Polymers.

U.S. Patent No. 3,959,209, issued to Lake, on May 25, 1976, for Curable Solid Polyester Resins.

U.S. Patent No. 4,049,245, issued to Tadmor et al., on September 20, 1977, for Apparatus and Method for Preparing a Plasticated Material.

U.S. Patent No. 4,071,494, issued to Gaylord, on January 31, 1978, for Compatibilization of Hydroxyl-Containing Fillers and Thermoplastic Polymers.

U.S. Patent No. 4,077,756, issued to Meadors, on March 7, 1978, for Injection Molding Extrusion Mixer.

U.S. Patent No. 4,120,630, issued to LaSpisa et al., on October 17, 1978, for Automatic Control of Extrusion.

U.S. Patent No. 4,137,023, issued to Moked et al., on January 30, 1979, for Low Energy Recovery Compounding and Fabricating Apparatus for Plastic Materials.

U.S. Patent No. 4,154,893, issued to Goldman, on May 15, 1979, for Production of Thermoplastic Billets and Preforms.

U.S. Patent No. 4,197,070, issued to Koschmann, on April 8, 1980, for Apparatus for Controlling a Plastic Extruder.

U.S. Patent No. 4,212,543, issued to Bersano, on July 15, 1980, for Twin-screw, Two-Stage and Multi-Stage Extruder Having a Double Feed.

U.S. Patent No. 4,267,285, issued to Broutman, on May 12, 1981, for Composites of Polymeric Material and Thermosetting Resinous Fibers and Particles and Method.

U.S. Patent No. 4,312,917, issued to Hawley, on January 26, 1982, for Fiber-Reinforced Compound Composite Structure and Method of Manufacturing Same.

U.S. Patent No. 4,317,765, issued to Gaylord, on March 2, 1982, for Compatibilization of Hydroxyl-Containing Fillers and Thermoplastic Polymers.

U.S. Patent No. 4,393,020, issued to Li et al., on July 12, 1983, for Method for Manufacturing a Fiber-Reinforced Thermoplastic Molded Article.

U.S. Patent No. 4,402,902, issued to Falk et al., on September 6, 1983, for Method for Molding Glass-Filled Thermoplastic Resins.

U.S. Patent No. 4,422,992, issued to Michel, on December 27, 1983, for Extruder Process for Preparation of Carbon Fiber Reinforced Fluoropolymer Compositions.

U.S. Patent No. 4,424,968, issued to Smith, on January 10, 1984, for Basketball Backboard and Apparatus.

U.S. Patent No. 4,430,059, issued to Bielfeldt, on February 7, 1984, for Injection Press.

U.S. Patent No. 4,443,175, issued to Rose et al., on April 17, 1984, for Apparatus and Method for Runnerless Transfer Molding of Thermoset Compounds.

U.S. Patent No. 4,500,595, issued to Gerteisen et al., on February 19, 1985, for Stainless Steel Fiber-Thermoplastic Granules and Molded Articles Therefrom.

U.S. Patent No. 4,505,661, issued to Bielfeldt, on March 19, 1985, for Injection Press.

U.S. Patent No. 4,537,737, issued to Crowe, on August 27, 1985, for Method and Equipment for Processing a Plasticizable Material.

U.S. Patent No. 4,583,732, issued to Allen, on April 22, 1986, for Breakaway Basketball Goal.

U.S. Patent No. 4,611,983, issued to Bielfeldt, on September 16, 1986, for Injection Press for Use in a Transfer Molding System.

U.S. Patent No. 4,653,646, issued to Allen et al., on March 31, 1987, for Singular Packaging System for Basketball Rim, Backboard and Pole.

U.S. Patent No. 4,663,103, issued to McCullough et al., on May 5, 1987, for Apparatus and Method of Extrusion.

U.S. Patent No. 4,721,589, issued to Harris, on January 26, 1988, for Extruder Viscosity Control System and Method.

U.S. Patent No. 4,738,808, issued to Hammer et al., on April 19, 1988, for Method of Forming Articles From a Plastic Material.

U.S. Patent No. 4,804,505, issued to Venzke, on February 14, 1989, for Method of Operating a Screw Extruder and Screw Extruders for Carrying Out Said Methods.

U.S. Patent No. 4,826,162, issued to Allen, on May 2, 1989, for Compact Basketball Goal and Backboard Assembly.

U.S. Patent No. 4,863,653, issued to Takubo et al., on September 5, 1989, for Process of Producing Thermoplastic Resin Sheet and Equipment Therefor.

U.S. Patent No. 4,876,049, issued to Aoyama et al., on October 24, 1989, for Methods for Preparing Molded Articles of Ultra-High Molecular Weight Polyethylene.

U.S. Patent No. 4,889,430, issued to Mueller, on December 26, 1989, for Planetary Gear Extruder for the Compounding and Extrusion of Plastic Materials.

U.S. Patent No. 4,908,278, issued to Bland et al., on March 13, 1990, for Severable Multilayer Thermoplastic Film.

U.S. Patent No. 4,921,646, issued to Stewart, on May 1, 1990, for Forming Laminated Billets From Individual Billets.

U.S. Patent No. 4,925,381, issued to Aoki, et al., on May 15, 1990, for Machine for Press-Molding Thermoplastic Resin.

U.S. Patent No. 4,937,028, issued to Glemet et al., on June 26, 1990, for Process for Producing Thermoplastic Resins Reinforced with Long Fibers.

U.S. Patent No. 4,968,463, issued to Levasseur, on November 6, 1990, for Process for Making Molded or Extruded Objects from Waste Containing Plastic Materials.

U.S. Patent No. 5,000,900, issued to Baumgartner, on March 19, 1991, for Twin Screw Extruder.

U.S. Patent No. 5,006,007, issued to Fischer et al., on April 9, 1991, for Vibration-Proof Coupling.

U.S. Patent No. 5,088,910, issued to Goforth et al., on February 18, 1992, for System for Making Synthetic Wood Products from Recycled Materials.

U.S. Patent No. 5,091,436, issued to Frisch et al., on February 25, 1992, for Reinforced Foam Composites Comprising Hydroxy-Containing Vinyl Ester Resin.

U.S. Patent No. 5,110,275, issued to Scheuring, on May 5, 1992, for Extruder for the Preparation of Plastic Material With the Introduction of at Least One Fibre Strand.

U.S. Patent No. 5,165,941, issued to Hawley, on November 24, 1992, for Extruder Apparatus and Process for Compounding Thermoplastic Resins and Fibers.

U.S. Patent No. 5,207,407, issued to Fitzsimmons et al., on May 4, 1993, for Portable Base for Basketball Backboard Support Pole.

U.S. Patent No. 5,238,633, issued to Jameson, on August 24, 1993, for Method and Apparatus for Recycling Plastic Waste Into a Thin Profile, Mechanically Reinforced Board.

U.S. Patent No. 5,240,663, issued to Stringaro et al., on August 31, 1993, for Method, Apparatus and Extrusion Nozzle for Producing a Member From Extrudable Material.

U.S. Patent No. 5,259,749, issued to Meixner et al., on November 9, 1993, for Apparatus for Feeding Synthetic Resin Material to Injection Molding and Extruder Units.

U.S. Patent No. 5,275,776, issued to Hara et al., on January 4, 1994, for Method for Producing Molded Article of Fiber-Reinforced Thermoplastic Resin.

U.S. Patent No. 5,280,666, issued to Wood et al., on January 25, 1994, for Squeegee Apparatus for a Vacuum Cleaner System.

U.S. Patent No. 5,292,118, issued to Allen et al., on March 8, 1994, for Basketball Backboard Elevator System.

U.S. Patent No. 5,312,573, issued to Rosenbaum et al., on May 17, 1994, for Process for Extruding Mixtures of Thermoplastic and Thermoset Materials.

U.S. Patent No. 5,324,755, issued to Kilius et al., on June 28, 1994, for Glass Fiber Reinforced Composition of Propylene Polymer Grafted with Styrenic Monomer and Containing Styrenic Polymer.

U.S. Patent No. 5,344,299, issued to Takeuchi, on September 6, 1994, for Resin Material Supply Apparatus for Resin Press Molding Machine.

U.S. Patent No. 5,358,397, issued to Ligon et al., on October 25, 1994, for Apparatus for Extruding Flowable Materials.

U.S. Patent No. 5,358,680, issued to Boissonnat et al., on October 25, 1994, for Process for Manufacturing a Composite Product by Molding.

U.S. Patent No. 5,415,393, issued to Fitzsimmons et al., on May 16, 1995, for Portable Basketball Goal with Collapsible Base.

U.S. Patent No. 5,421,712, issued to Laing et al., on June 6, 1995, for Screw Rotating and Advancing Molding Machine.

U.S. Patent No. 5,470,054, issued to Bohrman, on November 28, 1995, for One-Piece Extension Arm.

U.S. Patent No. 5,507,484, issued to Van Nimwegen et al., on April 16, 1996, for Basketball Backboard.

U.S. Patent No. 5,524,883, issued to Allen et al., on June 11, 1996, for Breakaway Net Attachment System.

U.S. Patent No. 5,626,339, issued to Schickert et al., on May 6, 1997, for Structural Foam Basketball Backboard With Inmold Graphics.

U.S. Patent No. 4,752,136, issued to Colby, on June 21, 1988, for Extruder Injection Apparatus and Method.

U.S. Patent No. 4,329,313, issued to Miller et al., on May 11, 1982, for Apparatus and Method for Extruding Ethylene Polymers.

U.S. Patent No. 5,185,117, issued to Hawley, on February 9, 1993, for Process for Compounding Thermoplastic Resins and Fibers.

Great Britain Patent Specification No. 1 449 472, published September 15, 1976, for Method for Molding Thermoplastic Articles Reinforced With Fibrous Reinforcing Elements, in the name of Owens-Corning Fiberglass Corporation.

Swiss Publication No. 610 235, filed on December 4, 1976, in the name of Toppan Printing Co., Ltd.

German Patent Publication No. DE 31 15 306, in the name of Yamakawa Industrial Co. Ltd., published April 15, 1981, for The Method or Process to the Matrix Synthesized Material.

European Patent Publication No. 0 045 501, published on February 10, 1982, for Method for Extruding Granular Low Density Narrow Molecular Weight Distribution Linear Ethylene Polymers, in the name of Union Carbide Corporation.

German Patent Publication No. DE 33 27 135, in the name of Herbert Funck, published on July 27, 1983, for Device for Casting Pure-Foam Mixtures in Open Hollow Forms.

Japanese Patent Publication No. 61-181618, in the name of Kurata Kinzoku Kogyo K.K., published on February 2, 1985, for Resin Material Feeding Apparatus in Compression Molding.

Swiss Patent No. 667 842 A5, filed on September 27, 1985, in the name of Bucher-Guyer AG Machine Factory for Method for Producing Form Parts Of Synthetic Material and Apparatus for Performing Same.

France Publication No. 2 564 374, published on November 22, 1985, in the name of Société GREPP.

Japanese Patent Abstract No. 60-264219, published on December 27, 1985, for Injection Device Including Check Valve, Especially Useful for Thermoplastic Resin Containing Long Fibres, in the name of Mitsubishi Heavy Ind KK.

Patent Abstract of Japan Publication No. 61-237618, published on October 22, 1986, for Manufacture of Molded Article Made of Synthetic Resin and its Manufacturing Device, in the name of Teiyoo KK.

German Patent Publication No. DE 37 05 470, in the name of Bucher-Guyer AG Maschinenfabrik, published on February 20, 1987, for Method for Production of Formed Parts from Synthetic Material and the Device to Carry Out the Same.

Japanese Patent Abstract No. 62-240515, published on October 21, 1987, for Device for Regenerating Plastic Waste, in the name of Akamatsu.

European Patent Publication No. EP 0 285 982, in the name of Bayer AG, published on March 29, 1988, for Method and Device for Production of Formed Parts From a Fibre-Containing, Durable, Plastic Form Stock to Lend Form Parts of Fibre-Containing, Durable, Plastic.

German Patent Publication No. DE 38 43 342, in the name of Stefan Biffar, published on December 22, 1988, for Apparatus for the Production of Plastic (Especially Thermoplastic) Heated and Recycled Synthetic Material From A Plasticator in the Form Tool of a Press.

Soviet Union Publication No. 1646880, filed May 7, 1991 in the name of Tatarkin V A for Plasticising Mechanism Feeder – Has Hopper With Vertical Screw and Lateral Reciprocating Spring-Loaded Plungers in Bores With Parallel Side Plates.

German Patent Publication No. DE 42 36 662, in the name of Frank Truckenmüller, published October 30, 1992, for Apparatus for Production or Making of Form Parts of Plasticizable Material and Fiber-Shaped Inserts.

European Patent Publication No. 0 541 441, published on December 5, 1993, in the name of Vetrotex France S.A.

German Patent No. 42 11 221, issued on October 21, 1993, in the name of Kobe Steel Ltd.

European Patent Publication No. 0 575 855, published December 29, 1993, in the name of Leuna-Werke AG.

European Patent Publication No. 0 618 060, published on October 5, 1994, for Plasticating Unit for Thermoplastic Granules with Long, Undirectional Fibres, in the name of Hoeschst Aktiengesellschaft.

International Search Report dated February 14, 1996 PCT/US95/03166.

Advertisement: RPM "Tomorrow's Thermoset Molding Today" for RPM-60 Reciprocating Screw Preplasticator for Thermosets, undated.

"Can Glass Fiber Reinforced Polypropylene Composites be Recycled?," by Donald L. Reinhard, Azdel, Inc., SAE Technical Paper Series, No. 920855, The Engineering Society for Advancing Mobility Land Sea Air and Space, 400 Commonwealth Drive, Warrendale, Pennsylvania 15096-0001, International Congress & Exposition, Detroit, Michigan, February 24-28, 1992.

Miscellaneous Machine Drawings dated January 17, 1989 and April 18, 1989 regarding RPM 60/100 manufactured by Rose Plastic and Machinery, Inc., showing a plasticator and deep flight screw (left hand).

"The Art of Large Parts," AZDEL Thermoplastic Composites, AZDEL, Inc., Publication No. TPS-350, dated February 1993.

To the extent that the effective date of the material listed below is antedated by one or more of the related parent applications, the following reference is cited only as to new

matter, which the U.S. Patent No. 5,800,757 (and only to the extent claimed in this application) added to U.S. Patent No. 5,591,384.

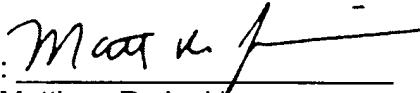
U.S. Patent No. 5,540,495, issued to Pickel, on July 30, 1996, for an Injection Assembly for an Injection Molding Machine.

Although Applicant(s) believes that no fee is required by filing this statement, the Commissioner is authorized to charge any required fee to Deposit Account 50-1287.

The Commissioner is hereby authorized to charge any required by this paper, or to credit any overpayment, to Deposit Account No. 50-1287. Applicants hereby provide a general request for any extension of time that may be required at any time during the prosecution of the application. The Commissioner is also authorized to charge any deficiencies that have not been previously paid for and that are required during the prosecution of this application to Deposit Account No. 50-1287. (Should Deposit Account No. 50-01287 be deficient, please charge any further deficiencies to Deposit Account No. 10-0220).

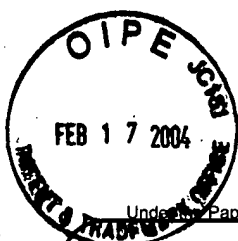
Respectfully submitted,

JACOX, MECKSTROTH & JENKINS

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February 13, 2004



PTO/SB/21 (02-04)

Approved for use through 07/31/2006. OMB 0651-0031

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**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/661,178
	Filing Date	September 12, 2003
	First Named Inventor	FREDRIC L. ABRAMS
	Art Unit	
	Examiner Name	
Total Number of Pages in This Submission	Attorney Docket Number	MTY 065 P2 C13

ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance communication to Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please Identify below): RETURN CARD
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	MATTHEW R. JENKINS, ESQ. JACOX, MECKSTROTH & JENKINS
Signature	
Date	2-13-2004

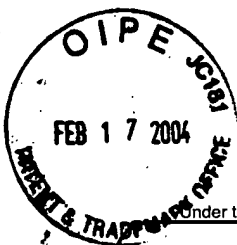
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Typed or printed name	REBECCA LANTIS		
Signature		Date	2-13-04

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of

Complete if Known

Application Number	10/661,178
Filing Date	September 12, 2003
First Named Inventor	Fredric L. Abrams
Art Unit	
Examiner Name	
Attorney Docket Number	MTY 065 P2 C13

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- D362,881	10-03-1995	SCHICKERT ET AL.	
		US- 1,743,299	01-14-1930	WIEMER	
		US- 1,944,464	01-23-1934	RICHARDSON	
		US- 2,386,966	10-16-1945	MACMILLEN	
		US- 2,683,895	07-20-1954	SCOFIELD	
		US- 2,799,047	07-16-1957	WIDIGER ET AL.	
		US- 2,877,501	03-17-1959	BRADT	
		US- 3,042,570	07-03-1962	BRADT	
		US- 3,078,513	02-26-1963	LEVISON ET AL.	
		US- 3,283,041	11-01-1966	SOMMERFIELD	
		US- 3,453,356	07-01-1969	KENT ET AL.	
		US- 3,499,186	03-10-1970	SASSA	
		US- 3,574,890	04-13-1971	GRESCH	
		US- 3,583,679	06-08-1971	GODLEY ET AL.	
		US- 3,632,254	01-04-1972	WOODHAM ET AL.	
		US- 3,632,256	01-04-1972	KASTING ET AL.	
		US- 3,728,056	04-17-1973	THEYSOHN	
		US- 3,728,986	04-24-1973	BROVOLL	
		US- 3,767,754	10-23-1973	MANNING ET AL.	

FOREIGN PATENT DOCUMENTS

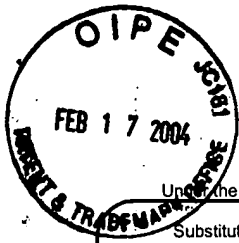
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		GB 1449472	09-15-1976	Owens-Corning Fiberglass		
		CH 610235	12-04-1976	Toppan Printing Co., Ltd.		
		DE 3115306	04-15-1981	Yamakawa Industrial Co...		
		EP 0045501	02-10-1982	Union Carbide Corporation		
		DE 3327135	07-27-1983	Herbert Funck		
		JP 61181618	02-02-1983	Kurata Kinzoku Kogyo KK		

Examiner
SignatureDate
Considered

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 2

of

Complete if Known

Application Number	10/661,178
Filing Date	September 12, 2003
First Named Inventor	Fredric L. Abrams
Art Unit	
Examiner Name	
Attorney Docket Number	MTY 065 P2 CI3

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 3,959,209	05-25-1976	LAKE	
		US- 4,049,245	09-20-1977	TADMOR ET AL.	
		US- 4,071,494	01-31-1978	GAYLORD	
		US- 4,077,756	03-07-1978	MEADORS	
		US- 4,120,630	10-17-1978	LASPIA	
		US- 4,137,023	01-30-1979	MOKED ET AL.	
		US- 4,154,893	05-15-1979	GOLDMAN	
		US- 4,197,070	04-08-1980	KOSCHMANN	
		US- 4,212,543	07-15-1980	BERSANO	
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		US- 4,393,020	07-12-1983	LI ET AL.	
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		US- 4,424,968	01-10-1984	SMITH	
		US- 4,430,059	02-07-1984	BIEFELDT	
		US- 4,443,175	04-17-1984	ROSE ET AL.	
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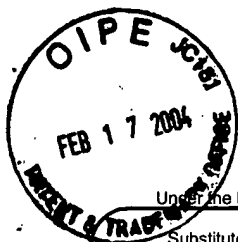
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		CH 667842 A5	09-27-1985	Bucher-Guyer AG Machine...		
		FR 2564374	11-22-1985	Societe GREPP		
		JP 60264219	12-27-1985	Mitsubishi Heavy Ind KK		
		JP 6123761	10-22-1986	Teiyou KK		
		DE 3705470	02-20-1987	Bucher-Guyer AG...		
		JP 62240515	10-21-1987	Akamatsu		

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SignatureDate
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Sheet 3

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Filing Date	September 12, 2003
First Named Inventor	Fredric L. Abrams
Art Unit	
Examiner Name	
Attorney Docket Number	MTY 065 P2 CI3

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		Number-Kind Code ² (if known)			
		US- 4,505,661	03-19-1985	BIEFELDT	
		US- 4,537,737	08-27-1985	CROWE	
		US- 4,583,732	04-22-1986	ALLEN	
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		US- 4,653,646	03-31-1987	ALLEN ET AL.	
		US- 4,663,103	05-05-1987	MCCULOUGH ET AL.	
		US- 4,721,589	01-26-1988	HARRIS	
		US- 4,738,808	04-19-1988	HAMMER ET AL.	
		US- 4,804,505	02-14-1989	VENZKE	
		US- 4,826,162	05-02-1989	ALLEN	
		US- 4,863,653	09-05-1989	TAKUBO ET AL.	
		US- 4,876,049	10-24-1989	AOYAMA ET AL.	
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		US- 4,937,028	06-26-1990	GLEMET ET AL.	
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		US- 5,000,900	03-19-1991	BAUMGARTNER	

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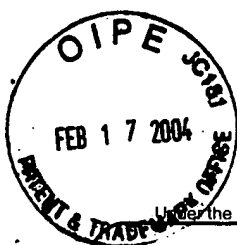
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		EP 0285982	03-29-1988	Bayer AG		
		DE 3843342	12-22-1988	Stefan Biffar		
		RU 1646880	05-07-1991	Tatarkin V A		
		DE 4236662	10-30-1992	Frank Truckenmuller		
		EP 0541441	12-05-1993	Vetrotex France S.A.		
		DE 4211221	10-21-1993	Kobe Steele Ltd.		

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Sheet 4

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Filing Date	September 12, 2003
First Named Inventor	Fredric L. Abrams
Art Unit	
Examiner Name	
Attorney Docket Number	MTY 065 P2 CI3

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		Number-Kind Code ² (if known)			
		US- 5,006,007	04-09-1991	FISCHER ET AL.	
		US- 5,088,910	02-18-1992	GOFORTH ET AL.	
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		US- 5,207,407	05-04-1993	FITZSIMMONS ET AL	
		US- 5,238,633	08-24-1993	JAMESON	
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		US- 5,292,118	03-08-1994	ALLEN ET AL.	
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		US- 5,421,712	06-06-1995	LAING ET AL.	

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		EP 0575855	12-29-1993	Leuna-Werke AG		
		EP 0618060	10-05-1994	Hoeschst Aktiengesellschaft		

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Attorney Docket Number	MTY 065 P2 CI3

Sheet 5

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		US- 5,470,054	11-28-1995	BOHRMAN	
		US- 5,507,484	04-16-1996	VAN NIMWEGEN ET AL.	
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Art Unit	
Examiner Name	
Attorney Docket Number	MTY 065 P2 CI 3

Sheet	6	of	6
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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		International Search Report dated February 14, 1996 (PTC/US95/03166)	
		REINHARD, DONALD L. "Can Glass Fiber Reinforced Polypropylene Composites Be Recycled?" SAE Technical Paper Series, No. 920855, Feb. 24 - 28, 1992, Azdel, Inc. The Engineering Society for Advancing Mobility Land Sea Air and Space. Detroit, MI.	
		Miscellaneous Machine Drawings dated 01-17-1989 and 04-18-1989 re: RPM 60/100 manufactured by Rose Plastic and Machinery, Inc. showing a plasticator and deep flight screw (left hand).	
		"The Art of Large Parts." Feb. 1993. Publication No. TPS-350. Azdel Thermoplastic Composites, Azdel, Inc.	

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